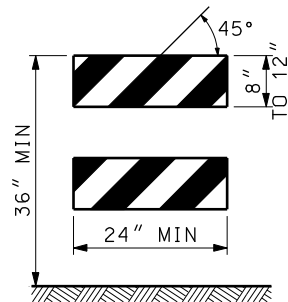
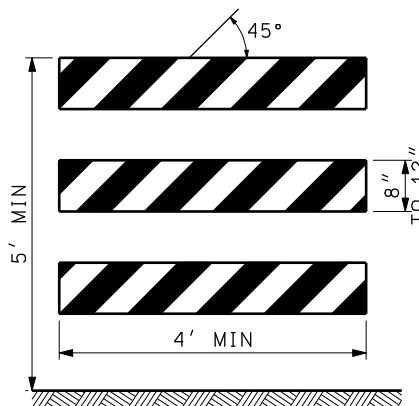


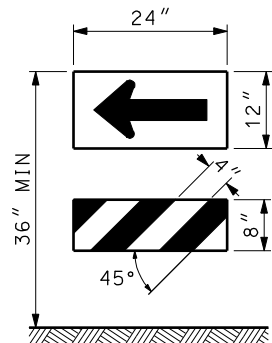
TYPE I BARRICADE



TYPE II BARRICADE



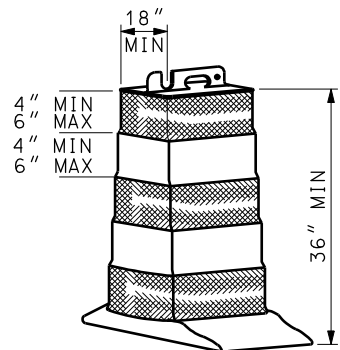
TYPE III BARRICADE



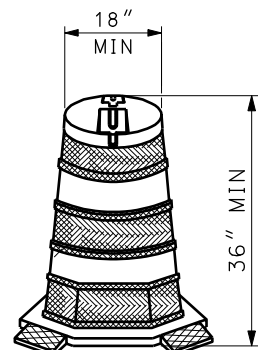
DIRECTION INDICATOR BARRICADE

BARRICADES

NOTES 1,2,6



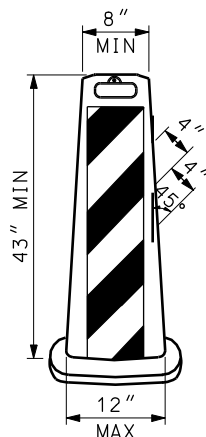
ONE-PIECE RECTANGULAR
W/RETROREFLECTIVE BANDS



TWO-PIECE ROUND
W/RETROREFLECTIVE BANDS

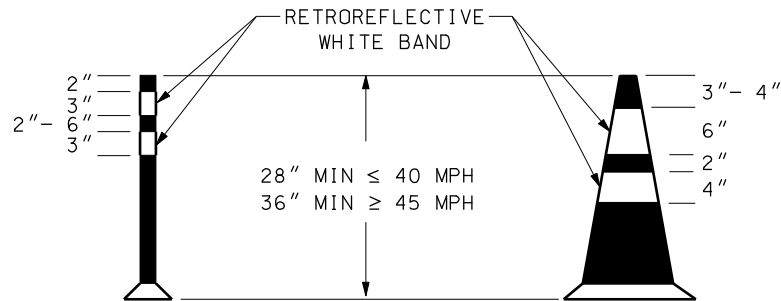
PLASTIC DRUMS

SEE NOTES 3,5,9



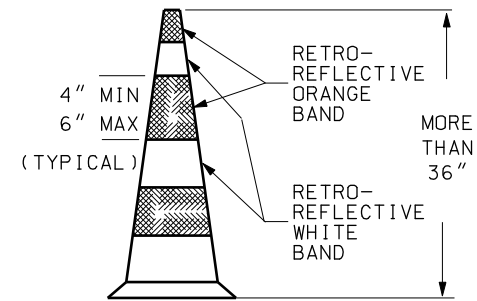
VERTICAL PANELS

SEE NOTE 1



TUBULAR MARKERS

DAYLIGHT HOURS ONLY
SEE NOTE 5



CONES

NOTES 5,7,8,9,10,11

NOTES:

1. USE A MINIMUM OF 270 SQUARE INCHES OF RETROREFLECTIVE MATERIAL PLACED ON BARRICADES AND VERTICAL PANELS WHEN USED ON FREEWAYS OR ROADWAYS WITH A POSTED SPEED GREATER THAN 45 MPH. PLACE BARRICADES AND VERTICAL PANELS IN SUCH A MANNER THAT THEY ARE VISIBLE TO APPROACHING TRAFFIC.
2. USE SANDBAGS WITH SAND OR OTHER COMPARABLE SOFT MATERIAL AS BALLAST. DO NOT PLACE BALLAST HIGHER THAN 12 INCHES ABOVE THE ROADWAY AND DO NOT COVER ANY REFLECTIVE AREA OF RAILS OR SIGNS.
3. USE PLASTIC DRUMS OR DIRECTIONAL BARRICADES AS LANE CLOSURE TAPER DEVICES FOR SPEEDS 50 MPH AND GREATER.
4. USE TUBULAR MARKERS FOR DAY-TIME USE ONLY.
5. WHEN DRUMS, CONES, OR TUBULAR MARKERS ARE USED TO CHANNELIZE PEDESTRIANS, LOCATE THEM SUCH THAT THERE ARE NO GAPS BETWEEN THE BASES OF THE DEVICES IN ORDER TO CREATE A CONTINUOUS BOTTOM, AND THE HEIGHT OF EACH INDIVIDUAL DRUM, CONE, OR TUBULAR MARKER IS NO LESS THAN 36 INCHES TO BE DETECTABLE TO USERS OF LONG CANES. WHEN BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS, THE BOTTOM OF THE BOTTOM RAIL WILL BE NO HIGHER THAN 6 INCHES OFF THE GROUND IN ADDITION TO THE ABOVE REQUIREMENTS.
6. USE A DIRECTION INDICATOR BARRICADE WITH A ONE-DIRECTION LARGE ARROW (W1-6) SIGN MOUNTED ABOVE A DIAGONAL STRIPED, HORIZONTALLY ALIGNED, RETROREFLECTIVE RAIL.
7. USE REFLECTORIZED CONES DURING NIGHTTIME FOR MAXIMUM VISIBILITY.
8. PROVIDE RETROREFLECTORIZATION OF CONES THAT ARE 28 TO 36 INCHES IN HEIGHT BY USING A 6 INCH WIDE WHITE BAND LOCATED 3 TO 4 INCHES FROM THE TOP OF THE CONE AND AN ADDITIONAL 4 INCH WIDE WHITE BAND LOCATED APPROXIMATELY 2 INCHES BELOW THE 6 INCH BAND.
9. PROVIDE RETROREFLECTORIZATION OF CONES THAT ARE MORE THAN 36 INCHES IN HEIGHT BY USING HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES THAT ARE 4 TO 6 INCHES WIDE. USE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES FOR EACH CONE, WITH THE TOP STRIPE BEING ORANGE. DO NOT EXCEED 3 INCHES IN WIDTH FOR ANY NON- RETROREFLECTIVE SPACES BETWEEN THE ORANGE AND WHITE STRIPES
10. DO NOT USE CONES DURING NIGHTTIME ON FREEWAYS, DIVIDED HIGHWAYS, OR ROADS WITH A SPEED OF 55 MPH OR GREATER. THIS RESTRICTION DOES NOT APPLY TO PAVEMENT MARKING OPERATIONS.
11. DO NOT USE CONES FOR LONG TERM STATIONARY OPERATIONS. CONES WILL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORKDAY, WITH THE FOLLOWING EXCEPTION:

CONES MAY BE USED FOR UP TO 3 DAYS/2 NIGHTS FOR OPERATIONS WHERE WORKERS ARE CONTINUALLY PRESENT AND WORK IS ACTIVELY UNDERWAY. CONES WILL BE REPLACED WITH VERTICAL PANELS, DRUMS, AND/OR BARRICADES WHEN WORKERS ARE NO LONGER PRESENT, OR WHEN WORK EXTENDS THROUGH ADDITIONAL NIGHTS.

REVISIONS				REMARKS			
NO.	DATE	APPR.	NO.	DATE	APPR.	NO.	DATE
1	08/28/08	MD	REVISED LEFT VERTICAL PANEL DETAIL TO MEET 270 SQUARE INCH RULE IN NOTE 1.				

UTAH DEPARTMENT OF TRANSPORTATION		STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION	
SALT LAKE CITY, UTAH		RECOMMENDED FOR APPROVAL	
CHAIRMAN STANDARDS COMMITTEE		DATE	
DEPUTY DIRECTOR		DATE	

WORK ZONE		CHANNELIZATION	
DEVICES		STANDARD DRAWING TITLE	

STD DWG	TC 2A
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SUPPLEMENTAL DRAWING